# **Product datasheet**

Specifications





Harmony XB5. Illuminated push button head. plastic. flush. white. Ø22. spring return. integral LED. for insetion of legend. unmarked

ZB5AA18

Price: 210.60 ZAR

### Main

Range Of Product	Harmony XB5	
Product Or Component Type	Head for illuminated push-button	
Device Short Name	ZB5	
Product Compatibility	Universal LED	
Bezel Material	Dark grey plastic	
Mounting Diameter	22 mm	
Sale Per Indivisible Quantity 1		
Head Type	Standard	
Shape Of Signaling Unit Head	Round	
Type Of Operator	spring return	
Operator Profile	White flush, unmarked	
Operator Additional Information	For insertion of legend	

# Complementary

Cad Overall Width	29 mm	
Cad Overall Height	29 mm	
Cad Overall Depth	30 mm	
Net Weight	0.018 kg	
Resistance To High Pressure Washer	7000000 Pa at 55 °C, distance : 0.1 m	
Mechanical Durability	10000000 cycles	
Main Group	Illum push-button	
Group Of Product	Flush push with inser of legend	
Station Name	XALD 15 cut-outs XALK 25 cut-outs	
Cap/Operator Or Lens Colour	White	
Marking	Unmarked	

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Electrical Composition Code	M1 for <6 contacts using single blocks in front mounting with integral LED M2 for <6 contacts using single and double blocks in front mounting with integral LED M6 for <2 contacts using single blocks in front mounting with integral LED and transformer M10 for <2 contacts using single blocks in front mounting with integral LED
	MF1 for <2 contacts using single blocks in front mounting with integral LED MR1 for <2 contacts using single blocks in rear mounting with integral LED C3 for <6 contacts using single blocks in front mounting C4 for <6 contacts using single and double blocks in front mounting
	C14 for <2 contacts using single blocks in front mounting SF2 for <2 contacts using single blocks in front mounting SR2 for <2 contacts using single blocks in rear mounting
Device Presentation	Basic element

# **Environment**

Protective Treatment	TC			
Ambient Air Temperature For Storage	-4070 °C			
Ambient Air Temperature For -4070 °C Operation				
Overvoltage Category	Class II conforming to IEC 60536			
Ip Degree Of Protection	IP66 conforming to IEC 60529 IP67 IP69 IP69K			
Nema Degree Of Protection	NEMA 13 NEMA 4X			
Ik Degree Of Protection	IK03 conforming to EN 50102			
Standards	UL 508 EN/IEC 60947-5-1 GB 14048.5 EN/IEC 60947-1 EN/IEC 60947-5-4 CSA C22.2 No 14 JIS C8201-5-1 JIS C8201-1			
Product Certifications	UL listed CSA DNV LROS (Lloyds register of shipping) GL BV			
Vibration Resistance	5 gn (f= 2500 Hz) conforming to IEC 60068-2-6			
Shock Resistance	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27 50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27			

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.800 cm
Package 1 Width	3.400 cm
Package 1 Length	5.400 cm
Package 1 Weight	19.000 g
Unit Type Of Package 2	BB1
Number Of Units In Package 2	5
Package 2 Height	8.800 cm

Package 2 Width	3.400 cm
Package 2 Length	26.500 cm
Package 2 Weight	99.000 g
Unit Type Of Package 3	S03
Number Of Units In Package 3	150
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	3.594 kg

# **Contractual warranty**

Warranty 18 months



**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

# Well-being performance

<b>Ø</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes

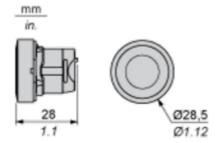
### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)  EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

# **ZB5AA18**

**Dimensions Drawings** 

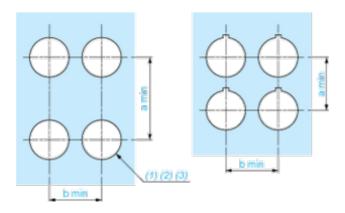
# **Dimensions**



#### Mounting and Clearance

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for

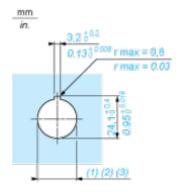
#### Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.
- (3) Ø22.5 mm recommended (Ø22.3  $_0^{+0.4}$ ) / Ø0.89 in. recommended (Ø0.88 in.  $_0^{+0.016}$ )

				•
Connections	a in mm	a in in.	b in mm	b in in.
By screw clamp terminals or plug-in connector	40	1.57	30	1.18
By Faston connectors	45	1.77	32	1.26
On printed circuit board	30	1.18	30	1.18

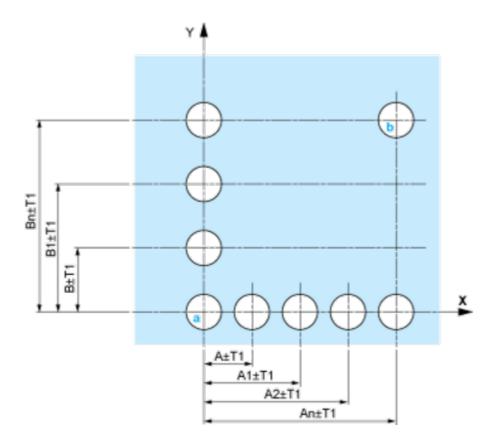
#### **Detail of Lug Recess**



- (1) Diameter on finished panel or support
- (2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended. (3)  $\emptyset$ 22.5 mm recommended ( $\emptyset$ 22.3  $_0^{+0.4}$ ) /  $\emptyset$ 0.89 in. recommended ( $\emptyset$ 0.88 in.  $_0^{+0.016}$ )

### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

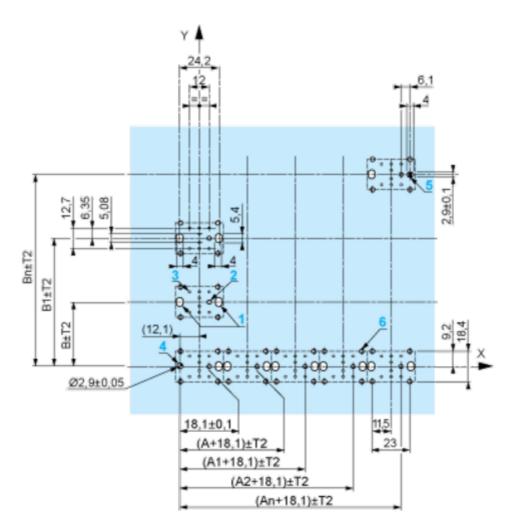
#### Panel Cut-outs (Viewed from Installer's Side)



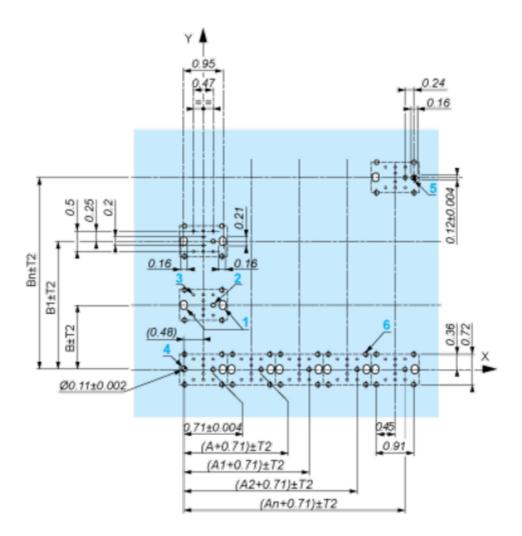
**A:** 30 mm min. / 1.18 in. min. **B:** 40 mm min. / 1.57 in. min.

Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min. Dimensions in in.



**A:** 1.18 in. min. **B:** 1.57 in. min.

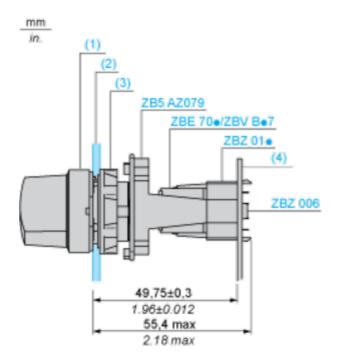
#### General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in.: T1 + T2 = 0.3 mm max.

#### **Installation Precautions**

- $_{\bullet}$  Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB5AZ009: ± 2 30' (excluding cut-outs marked **a** and **b**).
- Tightening torque of screws ZBZ006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB5AZ079 fixing collar/pillar and its fixing screws:
  - $_{\circ}\;$  every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - o with each selector switch head (ZB5AD•, ZB5AJ•, ZB5AG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



- (1) Head ZB5AD•
- (2) Panel
- (2) Nut
- (4) Printed circuit board

#### Mounting of Adapter (Socket) ZBZ01•

- 1 2 elongated holes for ZBZ006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- f 4 1 hole Ø 2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ01•

Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ01•.

# **Product datasheet**

# **ZB5AA18**

**Technical Description** 

**Electrical Composition Corresponding to Code C3** 



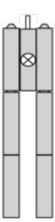
# **Electrical Composition Corresponding to Code C4**



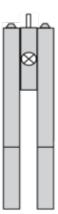
**Electrical Composition Corresponding to Codes C14, SF2 and SR2** 



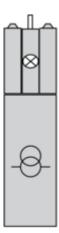
# **Electrical Composition Corresponding to Codes M1 and M7**



# **Electrical Composition Corresponding to Codes M2 and M8**



# **Electrical Composition Corresponding to Codes M6 and P2**



# **Product datasheet**

# **ZB5AA18**

Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2



# Legend

Single contact



Double contact



Light block



Possible location

